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barley,lipoxygenase, mutant

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Soybean flour lipoxygenase isozyme mutant effects on bread dough volatiles

K Addo, D Burton, MR Stuart, HR Burton, ... - JOURNAL OF FOOD ..., 1993 - interscience.wiley.com

... Defatting selectively reduced lipoxygenase 2 activity with little effect on lipoxygenases 1 and

3. Addition of full fat soy flour from mutant isolines indicated that as with soybean homogenates, lipoxygenase 2 is mostly responsible for undesirable aroma compounds. ... Barley, ...

Cited by 8 - Related articles - BL Direct - All 3 versions

Soybean flour lipoxygenase isozymes effects on wheat flour dough rheological and ...

B Cumbee, DF Hildebrand, K Addo - Journal of Food Science, 1997 - interscience.wiley.com

... Copyright 1997 by the Institute of Food Technologists. KEYWORDS. soy • lipoxygenase • isozymes • rheology • breadmaking. ... A reduction in bread firmness occurred after 5 day storage for all three single null mutant-containing samples in the presence of 1.0% linoleic acid ... Barley, ...

Cited by 17 - Related articles - BL Direct - All 3 versions

Differential defense reactions in leaf tissues of barley in response to infection by ...

S Steiner-Lange, A Fischer, A Boettcher, I ... - Molecular Plant ..., 2003 - Am Phytopath Society

... genes. 11 cor- responds to the gene encoding barley lipid transfer protein 2 (LTP2)

(Molina and Garcia-Olmedo 1993), and 18 to the gene coding for barley lipoxygenase

LOX-1 (LoxA) (van Mechelen et al. 1995). Furthermore ...

Cited by 30 - Related articles - BL Direct - All 11 versions

Jasmonate-signalled plant gene expression

C Wasternack, B Parthier - Trends in Plant Science, 1997 - Elsevier

... of jasmonate, abscisic acid, specific transcripts and proteins in osmotically stressed barley leaf segments ... E. Bell, R. Creelman and JE Mullet, A chloroplast lipoxygenase is required for wound ...

GA Howe et al., An octadecanoid pathway mutant (JL5) of tomato is compromised in ...

Cited by 319 - Related articles - All 3 versions

The lipoxygenase pathway

I Feussner, C Wasternack - 2003 - Annual Reviews

... synthase; DES, divinyl ether synthase; α -DOX, α -dioxygenase; EAS, epoxy alcohol synthase;

HPL, hydroperoxide lyase; LOX, lipoxygenase; POX, peroxigenase ... 88), and Medicago truncatula

(AJ316561), two AOs have been found thus far in tomato (56, 105) and barley (80). ...

Cited by 402 - Related articles - BL Direct - All 4 versions

Low lipoxygenase 1 barley

AC Douma, A Doderer, V Cameron-Mills, B ... - US Patent App. 09/ ..., 2000 - Google Patents

... 29, 2000 Publication Classification (51) Int. Cl.7 C12N 15/82 (52) US Cl 800/320.1; 800/281

(57) ABSTRACT Barley plants having reduced lipoxygenase-1 enzyme activ- ity are provided, for example, barley plants expressing mutant LOX-1 protein. ...

Cited by 2 - Related articles - BL Direct - All 7 versions

Jasmonate-induced lipid peroxidation in barley leaves initiated by distinct 13-LOX ...

A Bachmann, B Hause, H Maucher, E Garbe, ... - Biological ..., 2002 - reference-global.com

... isolated from barley leaves (*Hordeum vulgare* cv. Salome) and char- acterized. Both of them encode 13-lipoxygenases with putative target sequences for chloroplast im- port. Immunogold labeling revealed preferential, if not exclusive, localization of lipoxygenase proteins in the ...

Cited by 24 - Related articles - BL Direct - All 2 versions

Conversion of cucumber linoleate 13-lipoxygenase to a 9-lipoxygenating species ...-

► nih.gov - Full View

E Horning, M Walther, H Kühn, I ... - Proceedings of the ... , 1999 - National Acad Sciences
... These data indicate the complete conversion of a linoleate 13-lipoxygenase to a 9-lipoxygenating ...
For bacterial expression of wild-type and mutant LOX species and for site-directed mutagenesis ...
LOX-2; 9-LOX: potato tuber LOX, tobacco elicitor-induced LOX, barley LOX-A ...

Cited by 67 - Related articles - BL Direct - All 10 versions

The allene oxide cyclase of barley (*Hordeum vulgare L.*)—cloning and organ-...-

H Maucher, I Stenzel, O Miersch, N Stein, M Prasad, U ... - Phytochemistry, 2004 - Elsevier
... Author Keywords: Barley; Jasmonates; Allene oxide synthases; Allene oxide cyclase; Stress
response; Tissue ... lle, JA—iso-leucine conjugate; JAME, JA methyl ester; LOX, lipoxygenase; OPDA,
12 ... PLA1), as evidenced by a recently identified JA-deficient mutant dad1 (delayed ...

Cited by 21 - Related articles - All 4 versions

... expression and the "oxylipin signature" in stressed barley leaves. Implications for ...-

► plantphysiol.org

R Kramell, O Miersch, R Atzorn, B Parthier, C ... - Plant ... 2000 - Am Soc Plant Biol
... Schlüter K, Burges J, Parthier B, Apel K (1992) The identification of leaf thionin as one of the main
jasmonate-induced proteins of barley (*Hordeum vulgare*). *Plant Mol Biol* 19: 193-204 [ISI][Medline];
Bell E, Creelman RA, Mullet JE (1995) A chloroplast lipoxygenase is required ...

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